Notice of Allowability The MAILING DATE of this communication app	10/607,052 Examiner	KANG ET AL.	
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The MAILING DATE of this communication app	Lynne A. Gurley	2812	
All claims being allowable, PROSECUTION ON THE MERITS is herewith (or previously mailed), a Notice of Allowance (PTOL-85 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT of the Office or upon petition by the applicant. See 37 CFR 1.31 1. This communication is responsive to the application filed 2. The allowed claim(s) is/are 1-18.	S (OR REMAINS) CLOSED in Street of the committee of the c	n this application. If not incluunication will be mailed in du	ded e course. THIS
 3.	under 35 U.S.C. § 119(a)-(d)	or (f).	
1. Certified copies of the priority documents have			
2. Certified copies of the priority documents have			
3. Copies of the certified copies of the priority de	ocuments have been receive	d in this national stage applic	cation from the
International Bureau (PCT Rule 17.2(a)).			
* Certified copies not received: 5. Acknowledgment is made of a claim for domestic priority reference was included in the first sentence of the specific	cation or in an Application Da	ta Sheet. 37 CFR 1.78.	ce a specific
(a) The translation of the foreign language provisional			
6. Acknowledgment is made of a claim for domestic priority in the first sentence of the specification or in an Application	n Data Sheet. 37 CFR 1.78.		
Applicant has THREE MONTHS FROM THE "MAILING DATE" of below. Failure to timely comply will result in ABANDONMENT of	f this application. THIS THR	REE-MONTH PERIOD IS NO	T EXTENDABLE.
7. A SUBSTITUTE OATH OR DECLARATION must be subr INFORMAL PATENT APPLICATION (PTO-152) which give	ves reason(s) why the oath o	AMINER'S AMENDMENT or redeclaration is deficient.	NOTICE OF
 8. CORRECTED DRAWINGS (as "replacement sheets") mu (a) including changes required by the Notice of Draftsper 1) hereto or 2) to Paper No. 		w (PTO-948) attached	
(b) I including changes required by the proposed drawing	correction filed, whic	h has been approved by the	Examiner.
(c) including changes required by the attached Examiner	's Amendment / Comment or	r in the Office action of Paper	· No
Identifying indicia such as the application number (see 37 CFR each sheet. Replacement sheet(s) should be labeled as such in	1.84(c)) should be written on the the margin according to 37 CF	ne drawings in the front (not the Rail of	ne back) of
 DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT FOR 	osit of BIOLOGICAL MATE THE DEPOSIT OF BIOLOGI	ERIAL must be submitted. CAL MATERIAL.	Note the
Attachment(s)			
1⊠ Notice of References Cited (PTO-892)	5☐ Notice of Info	ormal Patent Application (PT	O-152)
 2 Notice of Draftperson's Patent Drawing Review (PTO-948) 3 Information Disclosure Statements (PTO-1449 or PTO/SB/08 Paper No. 	6∐ Interview Sui	mmary (PTO-413), Paper No	· <u> </u>
	8), 7☐ Examiner's A	Amendment/Comment	
4⊡ Examiner's Comment Regarding Requirement for Deposit of Biological Material	8⊠ Examiner's S 9∏ Other	Statement of Reasons for Allo LYNNE GURLEY PATENT EXAMINER Ant Unit 2812	owance

Art Unit: 2812

REASONS FOR ALLOWANCE

The following is an examiner's statement of reasons for allowance: The closest prior art of record, Inoue (US 6,232,224) fails to teach, either alone or in combination, the combination of steps of the claimed invention, specifically including the step of "forming a capping layer having an over-hang structure on an upper part of each conductive pattern", as recited in claim 1; and the steps of "forming a capping layer having an over-hang structure on an upper part of each conductive pattern; weakening bonding forces between atoms contained in sidewalls of the capping layer with the use of an inert gas;" and, "extending an opening portion of the contact hole by performing a wet/cleaning/etching process and simultaneously removing the sidewalls of the capping layer", as recited in claim 12.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Lynne A. Gurley whose telephone number is 703-305-3474. The examiner can normally be reached on M-F 7:30-4:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John Niebling can be reached on 703-308-3325. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 308-308-0956.

LYNNE GURLEY
PATENT EXAMINER
Art. Unit 28/2

LAG January 12, 2004